

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14322

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B33/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 182 168 A (DEGUSSA) 27 February 2002 (2002-02-27) the whole document	1-30
A	EP 0 759 410 A (DEGUSSA) 26 February 1997 (1997-02-26) the whole document	1-30

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

22 April 2004

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04/05/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1182168	A	27-02-2002	EP 1182167 A1	27-02-2002
			EP 1186573 A1	13-03-2002
			EP 1182168 A1	27-02-2002
			JP 2002145610 A	22-05-2002
			US 2002044903 A1	18-04-2002
EP 0759410	A	26-02-1997	DE 19530339 A1	20-02-1997
			DE 59601291 D1	25-03-1999
			EP 0759410 A1	26-02-1997
			JP 3234160 B2	04-12-2001
			JP 9142829 A	03-06-1997
			KR 232438 B1	01-12-1999
			US 5976480 A	02-11-1999